

## ABSTRACT

5       The present invention pertains to an apparatus and a  
means of constructing a pH sensor that can detect changes  
in pH levels of humidified gases and liquid samples. When  
electronically connected to a computerized or analog  
display means, sensitive quantitative measurements can be  
obtained. Given the construction of current pH devices  
available today, there is a need in the field for a novel,  
10       miniaturized, self-condensing pH probe that can be used in  
fluid or humidified gases.

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